



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.07/HRP/CSR-12/1008f/CEMENT/2015-16

Date: 03.12.2015



TEST REPORT ON CEMENT

* CUSTOMER	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* AGENCY	: Mr. H.R. Prathap, #16, 1 st Main, Munikondappa Layout, Nagasandra (P), Bangalore – 560073.
* NAME OF THE WORK	: Providing Emergency and Maintenance works in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* REFERENCE	: EE/BTP/BBMP/E-PMT/394/2014-15 Dated: 31.03.2015
SAMPLE ID	: Cement
SAMPLE RECEIVED ON	: 01.12.2015
PERIOD OF TESTING	: 01.12.2015 to 03.12.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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*Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
Bangalore.*

*VISHWANATH. I.A.
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Job No.: CTCE/BBMP/W.No.07/HRP/CSR-12/1008f/SAND-Gradation/2015-16

: 03.12.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* Agency : Mr. H.R. Prathap,
#16, 1st Main, Munikondappa Layout, Nagasandra (P), Bangalore – 560073.

* Name of Work : Providing Emergency and Maintenance works in Ward No.07,
Byatarayanapura, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated: 31.03.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 01.12.2015

Date of Testing : 03.12.2015



Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.80	90-100	90-100	90-100	95-100
2.36	75.80	60-95	75-100	85-100	95-100
1.18	57.30	30-70	55-90	75-100	90-100
600 Micron	29.30	15-34	35-59	60-79	80-100
300 Micron	15.80	5-20	8-30	12-40	15-50
150 Micron	3.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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: 03.12.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* Agency : Mr. H.R. Prathap,
#16, 1st Main, Munikondappa Layout, Nagasandra (P), Bangalore – 560073.

* Name of Work : Providing Emergency and Maintenance works in Ward No.07, Byatarayanapura, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated: 31.03.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 01.12.2015

Date of Testing : 03.12.2015



Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.50	95-100	85-100
20	38.00	30-70	0-20
10	12.60	10-35	0-5
4.75	1.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.07/HRP /STEEL/2015-16

05.12.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Agency : Mr. H.R. Prathap,
#16, 1st Main, Munikondappa Layout, Nagasandra (P), Bangalore – 560073.

Name of the Work : Providing Emergency and Maintenance works in Ward No.07, Byatarayanapura, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated:
31.03.2015

Date of Test : 05.12.2015

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.30	O.K	O.K

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05.12.2015

TEST REPORT ON REINFORCEMENT STEEL

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Agency : Mr. H.R. Prathap,
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Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated:
31.03.2015

Date of Test : 05.12.2015

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	16	1.58	520	563	13.50	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/HRP/CSR-12/1008f/CUBE/2015-16

15.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* Agency : Mr. H.R. Prathap,
#16, 1st Main, Munikondappa Layout, Nagasandra (P), Bangalore – 560073.

* Name of the work : Providing Emergency and Maintenance works in Ward No.07, Byatarayanapura, BBMP, Bangalore.

* Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated: 31.03.2015

* Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 15.01.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.12.2015	15.01.2016	8.159	479.8	21.32
2	18.12.2015	15.01.2016	8.236	502.2	22.32
3	18.12.2015	15.01.2016	8.309	519.3	23.08

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Job No.: CTCE/BBMP/W.No.07/HRP/CSR-12/1008f/CUBE/2015-16

17.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * Agency : Mr. H.R. Prathap,
#16, 1st Main, Munikondappa Layout, Nagasandra (P), Bangalore – 560073.
- * Name of the work : Providing Emergency and Maintenance works in Ward No.07, Byatarayanapura, BBMP, Bangalore.
- * Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated: 31.03.2015
- * Sample ID : Culvert Deck Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 28th day
- Sample Received on : 17.01.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.12.2015	17.01.2016	8.130	480.3	21.35
2	20.12.2015	17.01.2016	8.265	510.6	22.69
3	20.12.2015	17.01.2016	8.315	520.6	23.14

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19.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * Agency : Mr. H.R. Prathap,
#16, 1st Main, Munikondappa Layout, Nagasandra (P), Bangalore – 560073.
- * Name of the work : Providing Emergency and Maintenance works in Ward No.07, Byatarayanapura, BBMP, Bangalore.
- * Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated: 31.03.2015
- * Sample ID : Drain Covering Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 19.01.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	22.12.2015	19.01.2016	8.115	475.5	21.13
2	22.12.2015	19.01.2016	8.239	493.6	21.94
3	22.12.2015	19.01.2016	8.359	512.3	22.77

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21.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * Agency : Mr. H.R. Prathap,
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- * Name of the work : Providing Emergency and Maintenance works in Ward No.07, Byatarayanapura, BBMP, Bangalore.
- * Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated: 31.03.2015
- * Sample ID : Drain Covering Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 21.01.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.12.2015	21.01.2016	8.110	485.5	21.58
2	24.12.2015	21.01.2016	8.287	497.3	22.10
3	24.12.2015	21.01.2016	8.320	518.6	23.05

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22.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * Agency : Mr. H.R. Prathap,
#16, 1st Main, Munikondappa Layout, Nagasandra (P), Bangalore – 560073.
- * Name of the work : Providing Emergency and Maintenance works in Ward No.07, Byatarayanapura, BBMP, Bangalore.
- * Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated: 31.03.2015
- * Sample ID : Drain Covering Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 28th day



Sample Received on : 22.01.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.12.2015	22.01.2016	8.097	478.5	21.27
2	25.12.2015	22.01.2016	8.158	503.6	22.38
3	25.12.2015	22.01.2016	8.240	526.3	23.39

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24.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* Agency : Mr. H.R. Prathap,
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* Name of the work : Providing Emergency and Maintenance works in Ward No.07,
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* Reference : EE/BTP/BBMP/E-PMT/394/2014-15 Dated: 31.03.2015

* Sample ID : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 24.01.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.12.2015	24.01.2016	8.180	489.5	21.76
2	27.12.2015	24.01.2016	8.278	510.2	22.68
3	27.12.2015	24.01.2016	8.346	520.1	23.12

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27.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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- * Agency : Mr. H.R. Prathap,
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- * Sample ID : Drain Covering Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 27.01.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	30.12.2015	27.01.2016	8.117	480.6	21.36
2	30.12.2015	27.01.2016	8.239	506.3	22.50
3	30.12.2015	27.01.2016	8.750	528.9	23.51

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